



**Australian Government**

# **NWPCAD010 Inspect and report on concrete dam safety**

**Release: 1**

# NWPCAD010 Inspect and report on concrete dam safety

## Modification History

Release 1. This is the first release of this unit of competency in the NWP National Water Training Package.

## Application

This unit involves the skills and knowledge required to inspect and report on concrete dam safety.

It includes preparing for and implementing dam safety visual inspections, reporting on conditions, faults in concrete dams and appurtenant structures. It also includes initiating emergency plans.

This unit applies to those with responsibility for the inspection of concrete dams and reporting of faults or trends. Those undertaking this unit would work under appropriate supervision while performing routine tasks in a limited range of familiar contexts.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

## Pre-requisite Unit

Not applicable.

## Competency Field

Catchment and Dams

## Unit Sector

Not applicable.

## Elements and Performance Criteria

### ELEMENTS

Elements describe the essential outcomes.

#### **1 Prepare for concrete dam inspection**

### PERFORMANCE CRITERIA

Performance criteria describe the performance needed to demonstrate achievement of the element.

#### **1.1 Identify and apply relevant organisational requirements relating to concrete dam safety inspection**

- |          |  |   |
|----------|--|---|
|          | <b>1.2</b>   | Identify features of concrete dam types and its application to inspected dams   |
|          | <b>1.3</b>   | Identify concrete dam behaviour under a range of conditions   |
|          | <b>1.4</b>   | Gather and validate checklists, previous inspection reports and relevant data   |
|          | <b>1.5</b>   | Schedule activities and gather appropriate equipment for concrete dam inspection according to workplace requirements        |
| <b>2</b> | <b>Inspect and assess the condition of concrete dams</b> |   |
|          | <b>2.1</b>   | Implement concrete dam visual inspection procedures and practices including for unusual events                              |
|          | <b>2.2</b>   | Inspect and assess condition and performance of concrete dams   |
|          | <b>2.3</b>   | Recognise, record and assess failure indicators and changes in the condition of the concrete dam and appurtenant structures |
| <b>3</b> | <b>Report the condition of concrete dams</b>             |   |
|          | <b>3.1</b>   | Collect and record measurements and evidence to determine the extent of changes in conditions                               |
|          | <b>3.2</b>   | Prepare and submit reports to relevant personnel according to workplace procedures  |
| <b>4</b> | <b>Activate emergency plans</b>                          |   |
|          | <b>4.1</b>   | Determine if faults and changes trigger a dam safety incident   |
|          | <b>4.2</b>   | Initiate and follow emergency plan according to workplace procedures  |

## Foundation Skills

Foundation skills essential to performance are explicit in the performance criteria of this unit of competency.

## Range of Conditions

Range is restricted to essential operating conditions and any other variables essential to the work environment.

Non-essential conditions may be found in the Companion Volume Implementation Guide.

## Unit Mapping Information

This unit replaces and is equivalent to NWPSOU024 Inspect and report on concrete dam safety.

### Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=26336bc0-04e5-49d9-8c31-46c49b6a0037>

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